10-3353/

Q 1.3 MAY 1958

Mr. William <u>Hangsterfer</u> President Hangsterfer's Laboratories, Inc. Ogden Road Mantus, New Jersey

Dear Mr. Hangsterfer:

On behalf of Mr. Dulles, may I acknowledge and thank you for your letter of 1 May.

We greatly appreciate your writing to us about your products but this is a matter which appears to fall within the purview of the General Services Administration and it is suggested that you get in touch with them.

Sincerely,

Singar

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Approved For Release 2002/07/29 : CIA-RDP80B01676R003800080062-7

Mr. William Hangsterfer, President Hangsterfer's Laboratories, Inc. Ogden Road Mantua, New Jersey

Dear Mr. Hangsterfer:

On behalf of Mr. Dulles, may I acknowledge and thank you for your letter of 1 May.

Your bringing this matter to our attention is appreciated, but we are unable to exament on something of this nature since it does not fall within the purview of the CIA.

Sincerely,

Assistant to the Director

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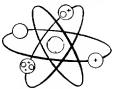
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Approved For Release 2002/07/29 GIA RDP80B01676R003800080062-7 Laboratories Inc.

Research



Development

Executive Registry

OGDEN ROAD, MANTUA, NEW JERSEY

PHONE: ULYSSES 7-0216

Finer Chemicals and Drawing Lubricants for the Atomic Age

May 1, 1958

Mr. Allen W. Dulles, Director of Central Intelligence Washington, D.C.

Dear Mr. Dulles:

Attached is a clipping from Tuesday's issue of the Philadelphia Evening Bulletin. You will note by our letterhead that we are engaged in manufacturing compounds for metal processing.

To give you a summary and history of our company, during the Second World War we were asked to make a drawing compound for stainless steel. All major companies had failed to do so and they had to precoat the tubing with a lead coating before being able to draw it. The lubricant we developed is not an oil but a semi-hydrogenated chemical with which they were able to make as high as 55% reduction in area in one pass with no pre-treating of the metal whatsoever. After the war ended we received a letter of appreciation from Brig.-Genl. Thomas for our part in helping to win the war.

In addition to this, we found that when this product was reduced in viscosity it was ideal for broaching. Westing-house had a difficult broaching operation on hard alloys for jet rotor fins. We also discovered this product was very good for tapping.

At Budd Company's Red Lion plant in Philadelphia they ran into difficulty stamping out auto and truck chassis and by the use of one of our products they increased production greatly. Just recently they had a difficult tapping and drilling operation on Tinidur, a very tough alloy containing titanium. Before using our J-54 they could machine only five afterburner door fins per day and after adopting the use of J-54 they are now able to work over 100 pieces a day.

We are supplying our products to a number of major plants such as General Electric, General Motors, Westinghouse,

Products DEVELOPED TO MEET YOUR PRESENT AND FUTURE NEEDS Engineers of For Release 2002/07/29: CIA-RDP80B01676R003800080062-7 AND SOLVE YOUR PROCESSING PROBLEMS

- 2 -

and A. O. Smith Corporation in Milwaukee. Renfrew Aircraft and Crouse-Hinds as well as other plants in Canada have been purchasing our material, as have several in Europe and Asia. From evidence we have received I feel confident we could increase production at a much lower cost if companies manufacturing for our Government the various parts used on missiles, jet planes and other defense weapons would adopt the use of our products. Since we do not have a large sales organization we are handicapped and it is nearly impossible to get a major company to adopt these products since the major oil companies seem to have a monopoly due to their sales organization. Regardless of how much scrap they have, we can positively increase tool, die, or cutter life, give a better finish with less scrap and fewer rejects.

Knowing that you ability and knowledge is unquestionable and that you and I both would like to see our country increase production at a lower cost when making these vital extreme hard metal parts, I was wondering, with your advance knowledge of manufacturers that we give contract to and who the subcontractors are, if word could not be passed on to them so they would at least try some of our products to eliminate delays and increase production thus being able to produce these vitally needed defense weapons at a saving in time and money.

Yours very truly,

HANGSTERFER'S LABORATORIES. INC.

William Hangsterfer, President

WH/f

Seen as Peril

Allen Dulles Tells Of Russian Gains

Washington, April 29—(AP)
—Spectacular Sovict industrial gains present the most serious challenge this country has ever faced in peacetime, Allen W. Dulles, director of the Central Intelligence Agency told the U.S. Chamber of Commerce yesterday.

He said total Sovlet output is rising about twice as fast as American production.

Steel Production

In the first quarter of this year the Communist countries for the first time surpassed the United States in steel production, Dulles said at the annual meeting of the chamber, and in the past year Soviet industrial output has gained 11 per cent while American mine and factory production dropped 11 per cent.

Noting Communist propaganda has been exploiting this country's business and unemployment problems to win converts for Communism in the uncommitted nations, Dulles observed "a recession is an expensive luxury."

The CIA chief predicted Russia will avoid war in the foresceable future and will wage the decisive cold war battles in the economic and subversive arena.

Hits Labor Power

A New York attorney told the chamber today that growing labor union power is "a more immediate threat to our way of life than the military might of Soviet Russia."

Theodore R. Iserman, attorney who specializes in labormanagement relations, said:

"The mine workers, the steel-workers. the auto workers and dozens of others have strangle-holds on the industries whose employes they represent, and through those industries can bring our country to the brink of disaster, as they have done time after time, in peace and in war."

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W E S T I N G H O U S E ELECTRIC CORPORATION



AVIATION GAS TURBINE DIV. LESTER BRANCH P. O. PHILADELPHIA 13, PA.

November 13, 1953

Hangsterfer Lab Inc., 21 Cooper Street, Woodbury, N. J.

Dear Mr. Hangsterfer:

At your request for a testimonial letter concerning your new J-400 soluble oil - allow me to say that it is one of the finest soluble oils on the market today.

In our detail machining department of the Aviation Gas Turbine Division, we are using J-400 exclusively in Lathes, Drill Presses, Milling Machines and Boring Mills.

Operators prefer J-400 because of no objectionable odors - it does not cause skin irritations, and will not rust any parts of the machines.

Management likes coolants of this type because it is economical - J-400 can be diluted to high proportions - 40 to 1 without losing any of the physical characteristics. It lasts long in the machine and does not turn rancid.

We machine materials like AlS1 410, AlS1 347, Discaloy, Titanium, and Inconel "X" with huge success using J-400 soluble diluted 20 to 1. J-400 has the proper lubricity plus E. P. properties to increase tool life two to four times normal wear.

It was found wherever soluble oil can be used J-400 will do it better and faster.

Respectfully

L. S. Fritch, Tool Supervisor

AVIATION GAS TURBINE DIVISION

LSF:fh

WESTINGHOUSE ELECTRIC CORPORATION



Bannister Road and Troost Avenue Kansas City, Missouri April 21, 1952

Hangsterfer's Laboratories, Inc. 21 Cooper Street Woodbury, New Jersey

Attention: Mr. Wm. Hansterfer, President

Gentlemen:

We have used your compound. Super Alkut 525, on several critical tapping operations, and it is a considerable improvement over the present compound we are using.

These above applications have been on stainless steel. We have found that this compound showed 33% saving in tool life, and on the smaller diameter taps, 10-32 size, all tap breakage has been eliminated.

We are cuite sure you are interested in this information.

Please furnish us quoted prices on your various lines of product, and quantities which are supplied.

Very truly yours,

WESTINGHOUSE ELECTRIC CORPORATION

Harland L. Printz, Superintendant

Fabrication Department 40

HLP:A

Approved For Release 2002/07/29 : CIA-RDP80B01676R003800080062-7



Route 313 • P.O. Box 110 • Doylestown, Pennsylvania • Doylestown 3518 February 15, 1956

Hangsterfer's Laboratories, Inc. Ogden Road Thorofare, New Jersey

Attention: Mr. William Hangsterfer

President

Gentlemen:

In answer to your request about our experience with your products, we are very happy to highly recommend your S-500, which we have used very successfully to do milling on S. A. E. grades - 4130, 4140, and 4150 steels.

Also, we have used the same product with excellent results for tapping and threading on both steel and aluminum. A feature that we are particularly happy about is the lack of offensive odors after being in the machines for a prolonged period of time.

In closing, I might add, that we have recommended S-500 to other metal working shops in our area.

Yours very truly,

Eastern Rotorcraft Corporation

Walter K. Hoffman Plant Superintendent

WKH:L



IN YOUR REPLY PLEASE REFER TO OUR FILE NO.

October 22, 1956

Mr. William Hangsterfer Ogden Road Mantna, New Jersey

Dear Sir:

On new multi-slide (or 4 slide) machine, production was 60,000 pieces per grind on cold rolled steel.

By using J-50 drip application, production was increased to 250,000 pieces per grind.

This J-50 was also used on various jobs where burrs had been started. It held the same burr for the balance of the run without the burr increasing.

Punch Press Foreman,

just use J-Series Compounds. Draw, stamp, form, tap, drill and pierce those tough metals easier and faster. Longer life from drills, dies, taps dnd cutters means more money saved. You can reduce costly scrap...have a better finish on your work. J-Series Compounds will do it.

These chemical compounds are semi-hydrogenated. They possess unusual clinging properties for metal surfaces . . . resist heat. Light amber in color, they have a pleasant odor . . . will not separate nor go rancid . . . harmless to an operator's skin, eyes and lungs.

They are available in three types to meet three different metalworking operations and various degrees of severity.

J-2 HEAVY GRADE

Recommended for difficult drawing, forming and stamping jobs, also for tapping 1½-inch diameter holes and larger. May be brushed on for stamping and forming. A gear pump may be used to flow over mandrel, dies and plugs in tube drawing.

J-1 MEDIUM GRADE

For drawing, stamping, forming, piercing and drilling. Recommended as an additive (2% to 7%) with

straight oils to increase film strength and reduce operating temperatures. Use for tapping $\frac{1}{2}$ " to $\frac{1}{2}$ " diameters.

When added to straight oil, J-1 should be heated to approximately 100° F, poured into the straight oil and agitated before adding mixture to machine. May be applied with gear pump to metal on draw benches, with roller coating or brush for forming and stamping of flat sheets. Irregular pieces may be brushed. For piercing, metal is coated and a small amount put on punch.

J-50 LIGHT GRADE

J-50 is used for light stamping, drawing and forming, drilling, and less severe operations, also for tapping to ½" diameters. Because J-50 is less viscous than J-1 pumps of a more common nature can handle it and due to its lighter viscosity it will penetrate into further points.

CLEANING

Any residue of J-series on metal, may be removed with boiling trichlorethylene. In extreme cases toluene may be used for secondary cleaning, also strong alkaline solution.

FOR USE ON STAINLESS STEEL • CHROME NICKEL INCONEL • MONEL • TITANIUM • TINIDUR AND OTHER HARD METALS

SPOT DEMONSTRATION OR 30-DAY TEST

We will be very happy to make a spot demonstration of J-Series Compounds on your stype of work in your shop. Because such a test is not adequate for a proper cost type of work in your engineers, we recommend that it be followed by a "30-day Experience study by your engineers, we recommend that it be followed by a "30-day it for the first drum is never considered sold until you have experience-tested it for 30 days with our help . . . and found it to be what we claimed.



Ogden Road, Manfua, New Jersey, U.S.A.

proved For Release 2002/07/29 : CIA-RDP80B01676R003800080062-7

Printed in U. S. A.

DRAWING STAINLESS STEEL

" tollowing lubricant practices are applicable to With types of stainless steels, both austenitic or fer-1. This includes type 18-8, 304, 347, 321, 403, ±⊆. efc.

wration of Tubing for Drawing—Before drowing. · tribing movid be free of scale and must be resolutely dry. Scale removal may be accomplished y day suitable acid pickling solution, such as · · · HF

g-1-2 drawing oil is reccommended for this protion. The oil may be applied by hand or ir hed over the outside of the tube as it is drown allugh the die.

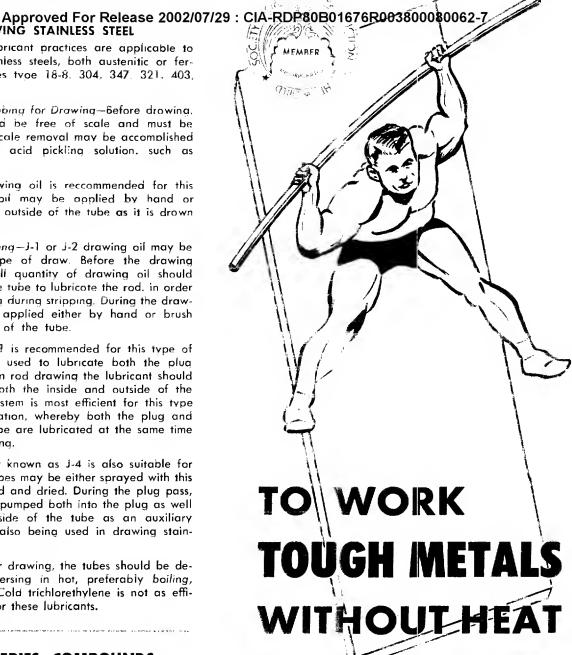
to for Bar Drawing-J-1 or J-2 drawing oil may be and for this type of draw. Before the drawing position a small quantity of drawing oil should a prosed into the tube to lubricate the rad, in order emovent sticking during stripping. During the drawa may be applied either by hand or brush me the outside of the tube.

... Drawing-J-1 is recommended for this type of haw. This oil is used to lubricate both the plua the die. As in rod drawing the lubricant should : applied to both the inside and outside of the in. A pump system is most efficient for this type drawing operation, whereby both the plug and as ide of the tube are lubricated at the same time in the drawing.

is now product known as J-4 is also suitable for desidrawing Tubes may be either sprayed with this and dried. During the plug pass, way then be pumped both into the plug as well 33 34er the outside of the tube as an auxiliary Amount. J-4 is also being used in drawing stain-- steel wire.

teureasing-After drawing, the tubes should be depresented by immersing in hot, preferably boiling, to the derethylene. Cold trichlorethylene is not as effiind a cleaner for these lubricants.

USE J-SERIES COMPOUNDS



USE J-SERIES COMPOUNDS

THESE HIGH TEMPERATURE STAINTESSVER FOR Release 2002/07/29 : CIA-REDB&DDQ6765093800MRQR6217 and far superior LONGER TIME AND TOOL KILLERS

This is a special job . . . this machining of austenitic, martensitic, ferritic steels and titanium alloys. Ordinary methods and ordinary cutting compounds just will not do the work. So Hangsterfer experience and research brought out SUPER ALKUT . . . a special chemical compound for a special job . . . to cut all metals of this type for superior results.

Super Alkut is a 1-unit product . . . it requires no mixing. It will not separate, go rancid nor break down under extreme pressure or heat. It is insoluble in water, neutral, will not attack nor corrode hard metal alloys. It has a pleasant odor, wine color, weighs about 9 lbs. to a gallon and is non-injurious to the skin. Available in four different viscosities.

Super Alkut is excellent for such precision work as machining or fabricating jet engines and their component parts, also guided missile programs, where high temperature alloys are used almost exclusively. It permits closer tolerances, much higher RPM, produces a finer finish, greatly increases tool life and decreases work hardening of material.

OUR TECHNICAL ENGINEERING SERVICE IS ALWAYS AT YOUR CALL

Super Alkut is only one of the Hangsterfer compounds made for specific requirements and for regular use. We will be glad to help you solve your problem just as we are glad to help new users of our products until they become acquainted with the many applications.

BROACHING

to the present day compounds consisting of sulphur and fatty acids. Broach life has increased from two to four times, finish improved 100% and the compound REMAINS at ROOM temperature. NO NEED to add carbon tetrachloride for improving finish.

MILLING

"Super Alkut" #521 or #522 is recommended. Where heavy speeds and high feeds are encountered, the lighter viscosity #521 is used. Whether high speed steel or carbide cutters are used, tool life and finish are improved at least 100%. Hobbing can be included in this category.

TAPPING-HAND

"Super Alkut" \$525 is recommended up to ½" diameters. From $\frac{1}{2}$ " to $1\frac{1}{2}$ " our J-1 compound should be used. Brush the compound on the tap, the size will remain constant, threads will have a "Ground finish" appearance, and tap life increases 200 to 400% over conventional cutting compounds.

TAPPING-MACHINE

"Super Alkut" #522 is recommended unless coolant pump requires a lighter viscosity, then #521 should be used. As above, tap life increases from 200 to 400% over conventional cutting compounds.

DRILLING

"Super Alkut" #521 is recommended for this operation where more heat dissipation is required, thus the lighter viscosity. Drill point life is greatly increased and work hardening of material decreased. However, #525 and our J-1 is recommended on larger diameters.

HANGSTERFER'S LABORATORIES, Inc.

pproved For Release 2002/07/29 : CIA-RDP80801676R00999990800624Frsey, U.S.A. Phone: ULysses 7-0216

"Super Alkut" #521 is recommended for smoll diameters up ta ¾"; diameters 1" and over, #523 is recommended. Where the finish is os critical os reamed holes, the ALKUT will reproduce the finish required and even better it. Reomer life is increosed over 100%.

CHASING OR TURNING THREADS

"Super Alkut" #522 or #525 is recommended. Tools and dies last longer and exceptional finish on threads result. Our UN-2 is recommended where the metal does not contoin chrome nickel.

If you have ony machining problems, write us ond take advantage of our technical engineering service.

DO YOU HAVE TROUBLE . . .

TAPPING

BROACHING

MILLING

DRILLING

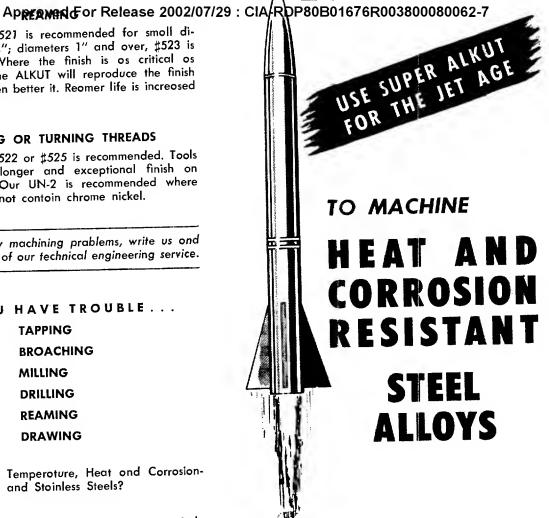
REAMING

DRAWING

The New High Temperature, Heat and Corrosion-Resistant Alloys and Stoinless Steels?

Call or write for particulars concerning an entirely new semi-hydragenated coolant SUPER ALKUT. This has been tested and proven to obtain far better finishes and greatly increosed tool life. If you have drawing or stamping problems, allow us to send literature on our componion products, J-1, J-2 etc.

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MORIO

HANGSTERFER'S 111 Q. D. and J-4 A new Semi-Plastic Drawing Compound for Titanium - Zirconium - Stainless Tubing and Wire

After considerable research and actual mill testing, we perfected a lubricant, which will permit unusually severe drafts on Beryllium Copper; Titanium, Zirconium; and Stainless Steel Wire and Tubing—such as types 304, 316, 403 and 430, which are normally difficult to draw. GALLING, CHATTERING AND SCRATCHING ARE ELIMINATED WITH THIS NEW LUBRICANT.

This lubricant consists of a resinous base and volatile solvents and can be applied by brushing, dipping or spraying, drying in a few minutes leaving a slightly tacky film. The resulting tacky coating exhibits unusually high E. P. characteristics and maintains a continuous unbroken film on the work during drawing. After drawing, this lubricant can be easily removed with trichlorethylene.

TRY IT JUST ONCE AND PROVE TO YOUR-SELF WHAT THIS UNUSUAL PRODUCT CAN ACCOMPLISH.

Better yet, tell us your problem in drawing or forming and we will help you work out the details of applying this lubricant to your job. It is these details of application that can mean the difference between success and failure in solving your problems.

This product is flammable in its liquid form although we have a smothering agent it it.* Care should be taken with no smoking allowed. We suggest, if possible, to coat the tubing or wire in a separate building or partition off a small section of your present building.

111 Q. D. MEDIUM GRADE

111 Q. D. permits plug drawing of 300 and 400 S/S Series without special preparation—without chatter, galling—permits holding close tolerances. Plug drawing eliminates more costly bar or rod drawing. Can be used in conjunction with our J-1 and J-2 when heavier drafts are sought. Hangsterfer's No. 7 Thinner may be used to reduce viscosity of 111 Q. D. if necessary.

J.4 HEAVY GRADE COATING

This material introduced a revolutionary principle in drawing tubing and solid bar or wire stock. By nature a tacky coating with high E. P. characteristics, this coating enables you to draw tubing of extremely tough alloys with more severe reductions than heretofore thought possible. Weld lines or seams will not cause pickup on the dies and double passes are made possible without any additional lubrication.

* It is classed in the same category as paint, lacquer, and varnish.

HANGSTERFER'S LABORATORIES, Inc. or ved For Release 2002/07/29: CIA-RDP80B81676R00380008006246w Jersey, U.S.A.

Printed in U.S.A.

Phone: ULysses 7-0216



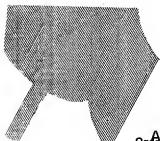


Bales or coils of stock may be dipped in the J-4 Solution and allowed to drain for ½ hour, by which time a tacky coating will have set up. The stock is then drawn on the bench or wheel block. J-4 may also be swabbed on the outside surface of the stock, and if tubing is involved and the ID is critical, the solution may be sprayed into the ID's, drained and air dried. Chlorinated hydrocarbons are recommended for degreasing.

Difficult forming operations have been overcome by the use of J-4. Our J-1 Compound is used as a secondary coating in some instances.

112 Q. D.

112 Q. D. has the same characteristics as 111 Q. D. except that it has incorporated in it an ingredient to make it non-flammable. It is available at a price slightly higher than the price of 111 Q. D.





HANGSTERFER'S
LABORATORIES, INC.
og Approached For Release 2002/07

Phone: ULysses 7-0216.

